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SEQUENCE LISTING

<110> Jakobsen, Brent Karsten  
Gao, George Fu  
Gerth, Ulrich Conrad  
Sewell, Andrew Kelvin

<120> CD8 AS AN INHIBITOR OF THE CELLULAR IMMUNE SYSTEM

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<140> US 09/560,494

<141> 2000-04-28

<150> PCT/GB98/03235

<151> 1998-10-28

<150> GB 9722779.7

<151> 1997-10-28

<160> 28

<170> PatentIn version 3.1

<210> 1

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA primer

<400> 1

gactgagtcg cggccgctgc caccatggcc ttaccagtga ccgccttg

48

<210> 2

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA primer

<400> 2

tattcgactg gatccttata cgtatctcgc cgaaaggctg gg

42

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<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA primer

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<220>  
 <223> Synthetic DNA primer

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<400> 6  
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<400> 7  
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 <212> DNA  
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<220>  
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<400> 8

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42

<210> 9  
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 <212> DNA  
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<220>  
 <223> Synthetic DNA primer

<400> 9  
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42

<210> 10  
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 <212> DNA  
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<400> 10  
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<400> 11  
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43

<210> 12  
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<220>  
 <223> HLA-A2 Pol-restricted CTL line specific peptide

<400> 12  
 Ile Leu Lys Glu Pro Val His Gly Val  
 1 5

<210> 13  
 <211> 9  
 <212> PRT  
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<220>  
 <223> HLA-A2 Pol-restricted CTL line specific peptide

<400> 13

Ser Leu Tyr Asn Thr Val Ala Thr Leu  
1 5

<210> 14  
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<212> PRT  
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<400> 14  
Val Ile Tyr Gln Tyr Met Asp Asp Leu  
1 5

<210> 15  
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<212> DNA  
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<400> 15  
ctgtccaacc cgacgtcggg cagctcgtgg ctcttccagc cg 42

<210> 16  
<211> 42  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic DNA primer

<400> 16  
cggctggaag agccacgagc tgcccgcgacgt cgggttggac ag 42

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<212> DNA  
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<220>  
<223> Synthetic DNA primer

<400> 17  
gggggaagct taatgccatt cgattttctg agcttcaaaa atatcggttca gaccaccacc 60  
ggatcctggc gtcgtggtgg gcttcgctgg caggaagac 99

<210> 18  
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<220>

<223> CD8 alpha polypeptide

<400> 18


Gly Ser Gly Gly Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu  
 1 5 10 15  
 Trp His

<210> 19

<211> 63

<212> DNA

<213> Artificial Sequence

 <220>

<223> Synthetic DNA primer

<400> 19

gaggaggagc atatgaaacc acaagcacct gaactacgaa tctttccaaa gaaaatggac 60  
 gcc 63

<210> 20

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic DNA primer

<400> 20

ggggagggaa gcttacttgg tagtagtaga gttcac 36

<210> 21

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> HLA-A2-flu

<400> 21

Gly Ile Leu Gly Phe Val Phe Thr Leu  
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<210> 22

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide epitope

<400> 22

Lys Ala Val Tyr Asn Phe Ala Thr Cys  
 1 5

<210> 23  
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<221> CDS  
 <222> (1)...(366)

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 atg agt caa ttt cgt gta tca ccg ctg gat cgg acc tgg aac ctg ggc 48  
 Met Ser Gln Phe Arg Val Ser Pro Leu Asp Arg Thr Trp Asn Leu Gly  
 1 5 10 15  
 gag aca gtg gag ctg aag tgc cag gtg ctg ctg tcc aac ccg acg tcg 96  
 Glu Thr Val Glu Leu Lys Cys Gln Val Leu Leu Ser Asn Pro Thr Ser  
 20 25 30  
 ggc tgc tcg tgg ctc ttc cag ccg cgc ggc gcc gcc gcc agt ccc acc 144  
 Gly Cys Ser Trp Leu Phe Gln Pro Arg Gly Ala Ala Ala Ser Pro Thr  
 35 40 45  
 ttc ctc cta tac ctc tcc caa aac aag ccc aag gcg gcc gag ggg ctg 192  
 Phe Leu Leu Tyr Leu Ser Gln Asn Lys Pro Lys Ala Ala Glu Gly Leu  
 50 55 60  
 gac acc cag cgg ttc tcg ggc aag agg ttg ggg gac acc ttc gtc ctc 240  
 Asp Thr Gln Arg Phe Ser Gly Lys Arg Leu Gly Asp Thr Phe Val Leu  
 65 70 75 80  
 acc ctg agc gac ttc cgc cga gag aac gag ggc tac tat ttc tgc tcg 288  
 Thr Leu Ser Asp Phe Arg Arg Glu Asn Glu Gly Tyr Tyr Phe Cys Ser  
 85 90 95  
 gcc ctg agc aac tcc atc atg tac ttc agc cac ttc gtg ccg gtc ttc 336  
 Ala Leu Ser Asn Ser Ile Met Tyr Phe Ser His Phe Val Pro Val Phe  
 100 105 110  
 ctg cca gcg aag ccc acc acg acg cca tag 366  
 Leu Pro Ala Lys Pro Thr Thr Thr Pro \*  
 115 120

<210> 24  
 <211> 121  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> an amino acid construct encoding part of the  
 extracellular domain of human CD8 alpha

<400> 24

Met Ser Gln Phe Arg Val Ser Pro Leu Asp Arg Thr Trp Asn Leu Gly  
 1 5 10 15  
 Glu Thr Val Glu Leu Lys Cys Gln Val Leu Leu Ser Asn Pro Thr Ser  
 20 25 30  
 Gly Cys Ser Trp Leu Phe Gln Pro Arg Gly Ala Ala Ala Ser Pro Thr  
 35 40 45  
 Phe Leu Leu Tyr Leu Ser Gln Asn Lys Pro Lys Ala Ala Glu Gly Leu  
 50 55 60  
 Asp Thr Gln Arg Phe Ser Gly Lys Arg Leu Gly Asp Thr Phe Val Leu  
 65 70 75 80  
 Thr Leu Ser Asp Phe Arg Arg Glu Asn Glu Gly Tyr Tyr Phe Cys Ser  
 85 90 95  
 Ala Leu Ser Asn Ser Ile Met Tyr Phe Ser His Phe Val Pro Val Phe  
 100 105 110  
 Leu Pro Ala Lys Pro Thr Thr Thr Pro  
 115 120

<210> 25  
 <211> 400  
 <212> DNA  
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<220>  
 <223> a synthetic DNA construct encoding part of the  
 extracellular domain of murine CD8 alpha

<221> CDS  
 <222> (4)...(396)

<400> 25  
 cat atg aaa cca caa gca cct gaa cta cga atc ttt cca aag aaa atg 48  
 Met Lys Pro Gln Ala Pro Glu Leu Arg Ile Phe Pro Lys Lys Met  
 1 5 10 15  
 gac gcc gaa ctt ggt cag aag gtg gac ctg gta tgt gaa gtg ttg ggg 96  
 Asp Ala Glu Leu Gly Gln Lys Val Asp Leu Val Cys Glu Val Leu Gly  
 20 25 30  
 tcc gtt tcg caa gga tgc tct tgg ctc ttc cag aac tcc agc tcc aaa 144  
 Ser Val Ser Gln Gly Cys Ser Trp Leu Phe Gln Asn Ser Ser Ser Lys  
 35 40 45  
 ctc ccc cag ccc acc ttc gtt gtc tat atg gct tca tcc cac aac aag 192  
 Leu Pro Gln Pro Thr Phe Val Val Tyr Met Ala Ser Ser His Asn Lys  
 50 55 60  
 ata acg tgg gac gag aag ctg aat tcg tcg aaa ctg ttt tct gcc atg 240  
 Ile Thr Trp Asp Glu Lys Leu Asn Ser Ser Lys Leu Phe Ser Ala Met  
 65 70 75  
 agg gac acg aat aat aag tac gtt ctc acc ctg aac aag ttc agc aag 288  
 Arg Asp Thr Asn Asn Lys Tyr Val Leu Thr Leu Asn Lys Phe Ser Lys  
 80 85 90 95  
 gaa aac gaa ggc tac tat ttc tgc tca gtc atc agc aac tcg gtg atg 336  
 Glu Asn Glu Gly Tyr Tyr Phe Cys Ser Val Ile Ser Asn Ser Val Met



100                      105                      110  
 tac ttc agt tct gtc gtg cca gtc ctt cag aaa gtg aac tct act act 384  
 Tyr Phe Ser Ser Val Val Pro Val Leu Gln Lys Val Asn Ser Thr Thr  
           115                      120                      125  
  
 acc aag cca taa gctt 400  
 Thr Lys Pro \*  
           130

<210> 26  
 <211> 130  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> an amino acid construct encoding part of the  
           extracellular domain of murine CD8 alpha

<400> 26  
 Met Lys Pro Gln Ala Pro Glu Leu Arg Ile Phe Pro Lys Lys Met Asp  
   1                          5                          10                          15  
 Ala Glu Leu Gly Gln Lys Val Asp Leu Val Cys Glu Val Leu Gly Ser  
                           20                          25                          30  
 Val Ser Gln Gly Cys Ser Trp Leu Phe Gln Asn Ser Ser Ser Lys Leu  
                           35                          40                          45  
 Pro Gln Pro Thr Phe Val Val Tyr Met Ala Ser Ser His Asn Lys Ile  
                           50                          55                          60  
 Thr Trp Asp Glu Lys Leu Asn Ser Ser Lys Leu Phe Ser Ala Met Arg  
  65                          70                          75                          80  
 Asp Thr Asn Asn Lys Tyr Val Leu Thr Leu Asn Lys Phe Ser Lys Glu  
                           85                          90                          95  
 Asn Glu Gly Tyr Tyr Phe Cys Ser Val Ile Ser Asn Ser Val Met Tyr  
                           100                          105                          110  
 Phe Ser Ser Val Val Pro Val Leu Gln Lys Val Asn Ser Thr Thr Thr  
                           115                          120                          125  
 Lys Pro  
           130

<210> 27  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> CD8 protein

<400> 27  
 Leu Leu Leu His Ala Ala Arg Pro  
   1                          5


<210> 28  
 <211> 8  
 <212> PRT



<213> Artificial Sequence

<220>

<223> CD8 protein

 <400> 28

Ala Pro Arg Pro Pro Thr Pro Ala

1

5

*Concl*

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